

# **Technical Operating Communications Between Building 400 and 401**

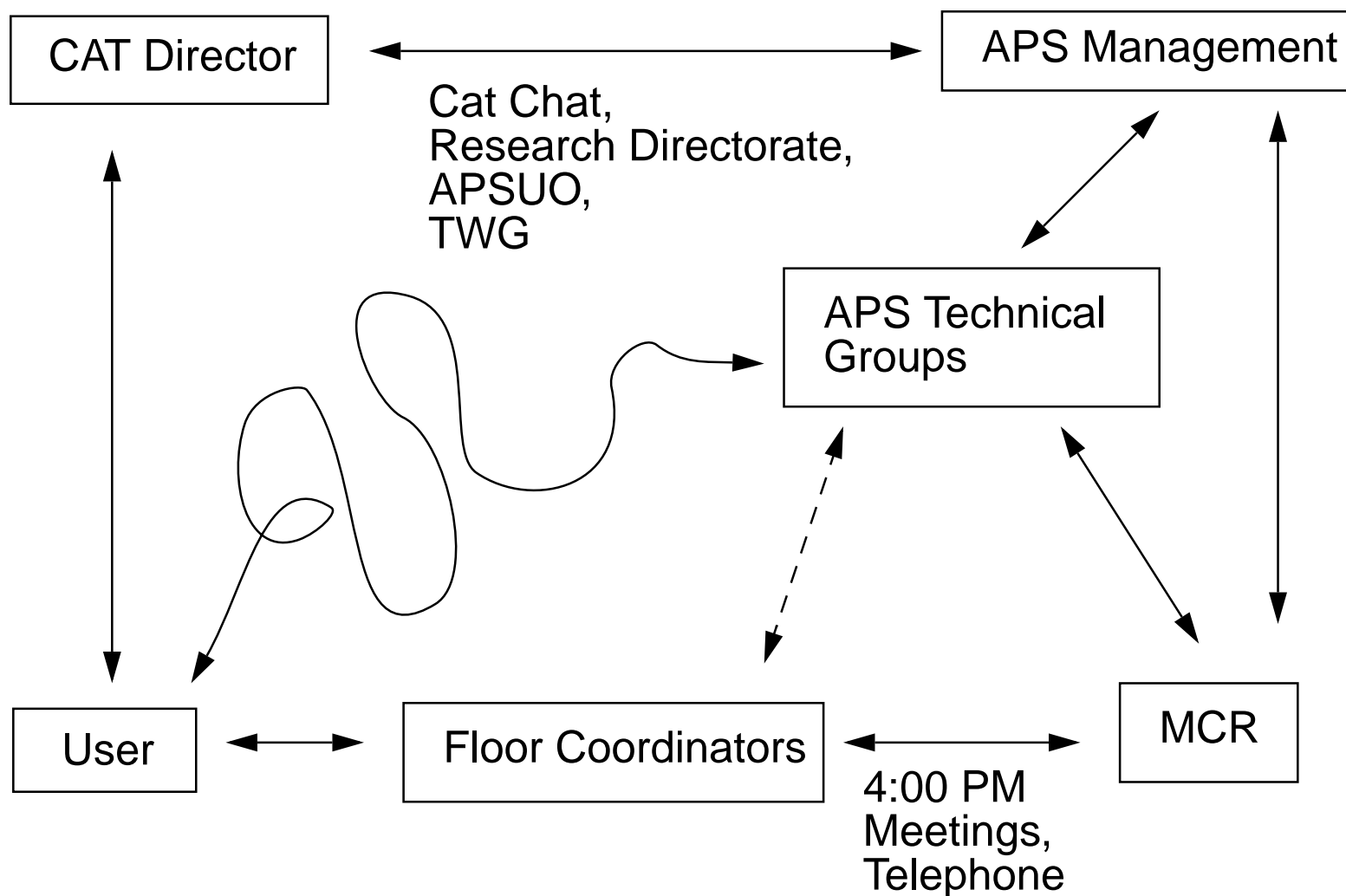
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## Caricature of Communication paths at the APS



# Excerpt from APS Conduct of Operations

## 4.3 Floor Coordinators

The Floor Coordinators have the responsibility for operations on the experiment floor, including the operation of beamline equipment that is the responsibility of the APS. They perform the initial trouble analysis and notify the appropriate responsible individuals for repair or replacement of faulty components. They are also responsible for monitoring user operations and providing necessary support and guidance to the users. The FCs maintain the records of beamline shielding, critical components, and other safety-related configurations and disable the beamlines whenever configuration changes are made. The FCs are responsible for enabling the beamlines only after confirming that the appropriate inspections and, if applicable, tests have been performed as described in configuration control procedures. At least one FC is on duty during each shift that is scheduled for user operations.

# Types of Technical Data

## Realtime:

- Machine status link - Beam current, timing
- Web pages (beam parameters, machine status)
- PV Gateway --> medm screens, stripcharts
- Data log files
- TV info channels --> machine status, pinhole camera images

## Timely data:

- Machine problems / status changes
- Problems affecting a single beamline
- Alarm situations e.g. beam stability problems

# Types of Technical Data (cont'd)

## Long term data:

- **Operation schedule**
- **Mode changes**
- **Upgrade plans / implementation**

## **Questions:**

**What is missing from the list?**

**What is the relative importance of the the different types of data, and how urgently needed are they? Some very important data is not urgent (like upgrade plans), while some urgently needed data may not be all that important (like when the beam will come back after a fault).**

**What is the appropriate forum for exchange of the different types of technical data?**

**Which conduits are most effective?**

**Which are least effective and what should be done about it?**

# EPICS control screen showing all available ID beam trajectory information

